Express Mail No.: EL897865525US
Title: TETRASPAN PROTEIN AND USES THEREOF
th Reinhard et al. Serial No. Not yet assigned

Inventors: C

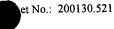
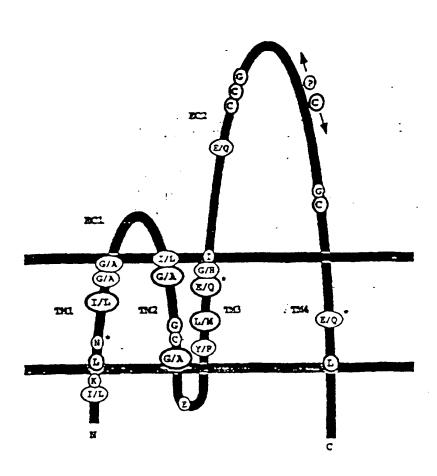


FIGURE 1



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FIGURE 2A

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1			cccccccccc				•
+1 51		CAGAAGATGC	ACTATTATAG TGATAATATC	ATACTCTAAC	GCCAAGGTCA		
	GCTGCTGGTA	CAAGTACCTC	CTTTTCAGCT GAAAAGTCGA	ACAACATCAT	CTTCTGGTTG	•	
+3							
151	GCTGGAGTTG CGACCTCAAC	TCTTCCTTGG AGAAGGAACC	AGTCGGGCTG TCAGCCCGAC	TGGGCATGGA ACCCGTACCT	GCGAAAAGGG CGCTTTTCCC		
+3							
	TGTGCTGTCC ACACGACAGG	GACCTCACCA CTGGAGTGGT	AAGTGACCCG TTCACTGGGC	GATGCATGGA CTACGTACCT	ATCGACCCTG TAGCTGGGAC	:	
+3 +1 251	TGGTGCTGGT	CCTGATGGTG	GGCGTGGTGA CCGCACCACT	TGTTCACCCT	GGGGTTCGCC	:	
] 							
) 1000m	GGCTGCGTGG CCGACGCACC	GGGCTCTGCG CCCGAGACGC	GGAGAATATC CCTCTTATAG	TGCTTGCTCA ACGAACGAGT	ACTTTTTCTG		
+3	TGGCACCATC	GTGCTCATCT	TCTTCCTGGA AGAAGGACCT	GCTGGCTGTG	GCCGTGCTGG		
		CCAGGACTGG	GTGAGGGACC	GGTTCCGGGA	GTTCTTCGAG		
	GGAAGGACAA	GGTCCTGACC	CACTCCCTGG	CCAAGGCCCT			
+3 +1			Cla	 iI			
			GGACGATATC CCTGCTATAG	GATCTGCAAA			
	CTCCCTTCAG	AAAGCTAACC	AGTGCTGTGG TCACGACACC	CGCATATGGC	CCTGAAGACT		

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1151 ACAGAGAGG CTCCTGTGGS TGCCAGGAGG GCTTGACTCA GACCCCCTGC TGTCTCTCCC GAGGACACCS ACGGTCCTCC CGAACTGAGT CTGGGGGACG

FIGURE 2B

+1 ------551 GGGACCTCAA CGTCTACTTC AATTGCAGCG GTGCCAGCTA CAGCCGAGAG CCCTGGAGTT GCAGATGAAG TTAACGTCGC CACGGTCGAT GTCGGCTCTC 601 AAGTGCGGGG TCCCCTTCTC CTGCTGCGTG CCAGATCCTG CGCAAAAAGT TTCACGCCCC AGGGGAAGAG GACGACGCAC GGTCTAGGAC GCGTTTTTCA 651 TGTGAACACA CAGTGTGGAT ATGATGTCAG GATTCAGCTG AAGAGCAAGT ACACTTGTGT GTCACACCTA TACTACAGTC CTAAGTCGAC TTCTCGTTCA 701 GGGATGAGTC CATCTTCACG AAAGGCTGCA TCCAGGCGCT GGAAAGCTGG CCCTACTCAG GTAGAAGTGC TTTCCGACGT AGGTCCGCGA CCTTTCGACC 751 CTCCCGCGGA ACATTTACAT TGTGGCTGGC GTCTTCATCG CCATCTCGCT GAGGGCGCCT TGTAAATGTA ACACCGACCG CAGAAGTAGC GGTAGAGCGA -1 .<----;I +1 -----601 GTTGCAGATA TTTGGCATCT TCCTGGCAAG GACGCTGATC TCAGACATCG CAACGTCTAT AAACCGTAGA AGGACCGTTC CTGCGACTAG AGTCTGTAGC M B51 AGGCAGTGAA GGCCGGCCAT CACTTCTGAG GAGCAGAGTT GAGGGAGCCG TCCGTCACTT CCGGCCGGTA GTGAAGACTC CTCGTCTCAA CTCCCTCGGC 901 AGCTGAGCCA CGCTGGGAGG CCAGAGCCTT TCTCTGCCAT CAGCCCTACG TCGACTCGGT GCGACCCTCC GGTCTCGGAA AGAGACGGTA GTCGGGATGC -1 -----(J +1 951 TCCAGAGGGA GAGGAGCCGA CACCCCCAGA GCCAGTGCCC CATCTTAAGC AGGTCTCCCT CTCCTCGGCT GTGGGGGTCT CGGTCACGGG GTAGAATTCG 1001 ATCAGCGTGA CGTGACCTCT CTGTTTCTGC TTGCTGGTGC TGAAGACCAA TAGTCGCACT GCACTGGAGA GACAAAGACG AACGACCACG ACTTCTGGTT 1051 GGGTCCCCCT TGTTACCTGC CCAAACTTGT GACTGCATCC CTCTGGAGTC CCCAGGGGGA ACAATGGACG GGTTTGAACA CTGACGTAGG GAGACCTCAG +1 ------1101 TACCCAGAGA CAGAGAATGT GTCTTTATGT GGGAGTNGTG ACTCTGAAAG ATGGGTCTCT GTCTCTTACA CAGAAATACA CCCTCANCAC TGAGACTTTC <-----

FIGURE 2C

+1	PstI						No.
	AGCTCAAGCA TCGAGTTCGT	ACARACGTCC	TGTGGGACCA	CCCYTYTCCA GGGRARAGGT	RACCGWAGGT		
	GACATCTGCT CTGTAGACGA	TTGGGTCATC	CACATCTGTG GTGTAGACAC	GGTNGGCCGT CCANCCGGCA	GGGTAGAGGG		
		CACCTGTCCC	GTAGAGAGAG	CATCAAGCAA GTAGTTCGTT			
				TTGGCCC AACCGGG	,		
GF. H. J. The call B. The call	The first time is then the time is the time that the time time time time time time time tim						

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FIGURE 3

1	MHYYRYSNAK	VSCWYKYLLF	SYNIIFWLAG	VVFLGVGLWA	WSEKGVLSDL	
51	TKVTRMHGID	PVVLVLMVGV	VMFTLGFAGC	VGALRENICL	LNFFCGTIVL	
101	IFFLELAVAV	LAFLFQDWVR	DRFREFFESN	IKSYRDDIDL	QNLIDSLQKA	
151	NQCCGAYGPE	DWDLNVYFNC	SGASYSREKC	GVPFSCCVPD	PAQKVVNTQC	
201	GYDVRIQLKS	KWDESIFTKG	CIQALESWLP	RNIYIVAGVF	IAISLLQIFG	
251	IFLARTLISD	IEAVKAGHHF				-

FIGURE 4

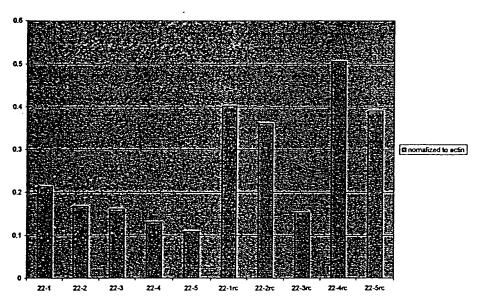
NTSP5:P104	CHIR22-1	TGCAGCCTTTCGTGAAGATGGACTC	25 (7-11-7)
NTSP5:P727	CHIR22-2	CCCCATGCTGCTTTGCTTGATGGAG	25 (7-11-7)
NTSP5:P285	CHIR22-3	GCTCAGCTCGGCTCCCTCAACTC	23 (7-9-7)
NTSP5:P456	CHIR22-4	CACAAGTTTGGGCAGGTAACAAGGG	25 (7-11-7)
NTSP5:P395	CHIR22-5	AGAGGTCACGTCACGCTGATGCTTA	
NTSP5:P104	CHIR22-1RC	CTCAGGTAGAAGTGCTTTCCGACGT	25 (7-11-7)
NTSP5:P727	CHIR22-2RC	GAGGTAGTTCGTTTCGTCGTACCCC	25 (7-11-7)
NTSP5:P285	CHIR22-3RC	CTCAACTCCCTCGGCTCGACTCG	23 (7-9-7)
NTSP5:P456	CHIR22-4RC	GGGAACAATGGACGGGTTTGAACAC	25 (7-11-7)
NTSP5:P395	CHIR22-5RC	ATTCGTAGTCGCACTACGCTGGAGA	25 (7-11-7)

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FIGURE 5

CHIR-22



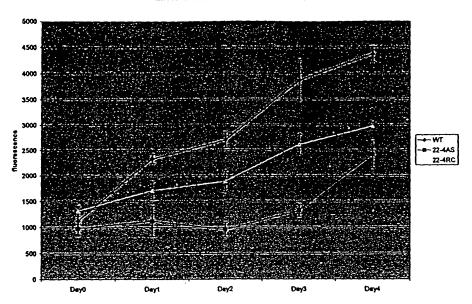
Inventors: (

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Title: TETRASPAN PROTEIN AND USES THEODER
THE No.: 200130.521

FIGURE 6

Effect of NTSP5 AS on Growth of SW620



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